JC03 Rec'd PCT/PTO 1 9 APR 2005

PTO-1390 (Rev. 02-2005) Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 59802(49947) DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US03/32672 13 October 2003 16 October 2002 TITLE OF INVENTION METHODS OF ASSESSING THE RISK OF REPRODUCTIVE FAILURE BY MEASURING **TELOMERE LENGTH** APPLICANT(S) FOR DO/EO/US David L. Keefe Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2 This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) Х is attached hereto (required only if not communicated by the International Bureau). b has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). C. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). is attached hereto. a. b has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) Х a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. have not been made; however, the time limit for making such amendments has NOT expired. C. d. have not been made and will not be made. 8 An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9 An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). Items 11 to 20 below concern document(s) or information included: 11 An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. Х A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15 A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. Other items or information: Return Receipt Postcard, Unexecuted Declaration, Petition and Power of Attorney; Petition to Revive Unintentionally Abandoned Patent Application.

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u.s. application 0 (if 75 3 16 95 6 4 International application no. PCT/US03/32672							ATTORNEY'S DOCKET NUMBER			
							59802(49947)			
The following fees have been submitted								_	CALCULATIONS	PTO USE ONLY
21. x Basic national fee\$300								\$	300.00	
22. x Exam	ninatio	on fee								
If International preliminary examination report prepared by USPTO and all claims satisfy										
provisions of PCT Article 33(1)-(4)								\$	200.00	
23. x Search fee										
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the										
USPTO as an International Searching Authority										
International Search Report prepared and provided to the Office \$400 All other situations \$500									100.00	
TOTAL OF 21, 22 and 23 =								\$	1,000.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding										
 sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. 										
Total Sheets				Number of each additional 50 or fraction						
			thereof (round up to a whole number					-		
47 - 100 =	30.00	/50 =	the cath	oath or declaration later than 30 months				+-		
	from the earliest claimed priority date (37 CFR 1.492 (e)).							\$	130.00	
CLAIMS	CLAIMS NUMBER I			FILED NUMBER EXTRA RATE						
Total claims	S		20 =			x 50.00		\$ \$	1,500.00	
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MULTIPLE DEPENDENT CLAIM(s) (if applicable) + 0.00									0.00	
TOTAL OF ABOVE CALCULATIONS =								\$	4,430.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.								\$	2,215.00	
SUBTOTAL =								\$	2,215.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).								\$		
TOTAL NATIONAL FEE =								\$ 2,215.00		
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property								\$		
TOTAL FEES ENCLOSED =								\$ 2.215.00		
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a. A ch	eck in	the amount o	f \$			to cover th	he above fees	is e	nclosed	
b. X Please charge my Deposit Account No. 04-1105 in the amount of \$ 2,215.00 to cover the above fees. A duplicate copy of this sheet is enclosed.										
c. x The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1105 . A duplicate copy of this sheet is enclosed.										
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit-eard information and authorization on PTO-2038.										
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must be filed	and g	ranted to resto	ore the Ir	iternat	ional Application	to pendin	g status.		<i>ブ</i> ┲ `	, , , ,
SEND ALL CORRESPONDENCE TO: SEND ALL CORRESPONDENCE TO:										
Peter C. Lauro SIGNATURE:										
DO DO 55074									C. Lauro	
P.O. Box 556		usetts 0220	5			NAM	E			
Boston, Massachusetts 02205 (617) 439-4444									360	
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PTO/SB/17 (12-04v2)

Approved for use through 7/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Effective on 12/08/2004. Not Yet Assigned Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818). Application Number FEE TRANSMITTAL Filing Date April 19, 2005 First Named Inventor David L. Keefe For FY 2005 Examiner Name Not Yet Assigned X Applicant claims small entity status. See 37 CFR 1.27 N/A Art Unit TOTAL AMOUNT OF PAYMENT 59802(49947) 2,215.00 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order None Other (please identify): x Deposit Account Deposit Account Number: 04-1105 Deposit Account Name: Edwards & Angell, LLP For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayment of Credit any overpayments fee(s) under 37 CFR 1.16 and 1.17 **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **EXAMINATION FEES FILING FEES SEARCH FEES** Small Entity **Small Entity** Small Entity **Application Type** Fee (\$) Fee (\$) Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 150 500 200 100 250 100 Design 200 100 50 130 65 Plant 200 100 300 150 160 80 Reissue 300 150 500 250 600 300 Provisional 200 100 O Λ 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 **Total Claims Extra Claims** Fee Paid (\$) **Multiple Dependent Claims** Fee (\$) 30 x 50.00 1500 Fee Paid (\$) Fee (\$) Fee Paid (\$) Indep. Claims Extra Claims Fee (\$) 6 × 200.00 1200.00 - 3 = 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). **Total Sheets** Extra Sheets Number of each additional 50 or fraction thereof Fee Paid (\$) Fee (\$) 47 - 100 = (round up to a whole number) x /50 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

2631 Basic National Stage fee
2633 National Stage Examination Fee - all other ...
2632 National Stage Search Fee - all other situations
2617 National Stage oath or declaration affer thirty... 150.00 100.00 250.00 65.00 National Stage claims - extra total (over twenty) 525.00 2614 National Stage claims - extra independent (over 600.00 Petition to Revive Untintentionally Abandoned Application 750.00 SUBMITTED BY Registration No Signature 32,360 Telephone (617) 439-4444 (Attomey/Agent) Name (Print/Type) Peter C. Lauro Date April 19, 2005

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 59802(49947)

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail; Airbill No. EV438976710US in an envelope addressed to:

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on April 19, 2005

Date

Signature

George N. Chaclas

Typed or printed name of person signing Certificate

46,608 (617) 439-4444

Registration Number, if applicable

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Fee Transmittal (1 page)

Application Data Sheet (2 pages)

Transmittal Letter to the United States Designated-Elected Office (2

pages)

Information Disclosure Statement

Form PTO/SB08a/b

Unexecuted Declaration/Power of Attorney

Petition to Revive Unintentionally Abandoned Patent Application

Return Receipt Postcard

Charge \$2,215.00 to deposit account 04-1105